TME Series

SKOPE Vertical Chiller

TME1000

User Manual

MAN10259 Rev. 4.0 Jul. 2014

SKOPE® Refrigeration

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1 Installation

Safety First

Always observe safety precautions when using any electrical appliance. Read these instructions carefully and retain them for future reference.

- When the appliance is used by or near young children or infirm persons, close supervision is necessary, especially to ensure children do not play with it.
- Do **not** use this appliance for other than its intended use.
- Do **not** cover the grilles or block the entry or exhaust of airflow by placing objects up against the refrigeration cassette.
- Do **not** probe any opening.
- Only use this appliance with the voltage specified on the chiller rating label affixed to the refrigeration cassette.
- Ensure the chiller has adequate ventilation as this is essential to economical, high performance.
- Be careful not to touch moving parts and hot surfaces.
- For your own safety and that of others, ensure that all electrical work is done by authorised personnel.
- If the power supply flexible cord becomes damaged, it must be replaced by an authorised service agent or similarly qualified person in order to avoid a hazard.
- Ensure all necessary safety precautions are observed during installation or removal of the refrigeration cassette.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- This appliance is not designed to be stable while in motion. Use extreme caution when moving or transporting the appliance.
- Please contact SKOPE customer services for advice regarding disposal of this appliance.

WARNING

Always disconnect the chiller from the mains power supply before attempting any cleaning or maintenance.

CAUTION

Never overload the power supply, which could damage the chiller and product. See the rating label inside the chiller for the safe power supply and current draw.

Positioning the Chiller

Power Cord

The chiller has a flexible power cord fitted with a 3-pin plug, which exits below the rear sign panel. Pull the power cord around so that it's not trapped before you position the chiller.

Chiller Location

The location of the chiller may be the single most important decision that will extend its life and ensure economical, high performance. We recommend that you put the chiller in the coolest place possible because it will use less power and last longer.

Allow adequate space for door/s to open and close properly. Self-closing doors have internal torsion bars pretensioned at the factory and must be unobstructed. Ensure the chiller sits on a level surface so that the door/s shut and correctly seal. Level footing also prevents the condensate tray from overflowing.

The maximim recommended ambient temperature for the chiller is 40°C.

Ventilation

For effecient operation of the chiller, it is essential that adequate ventilation be provided above the refrigeration unit. Ensure there is always at least a 200mm gap abetween the top of the sign panels and ceiling. Never store cardboard cartons or other objects on top of the chiller.

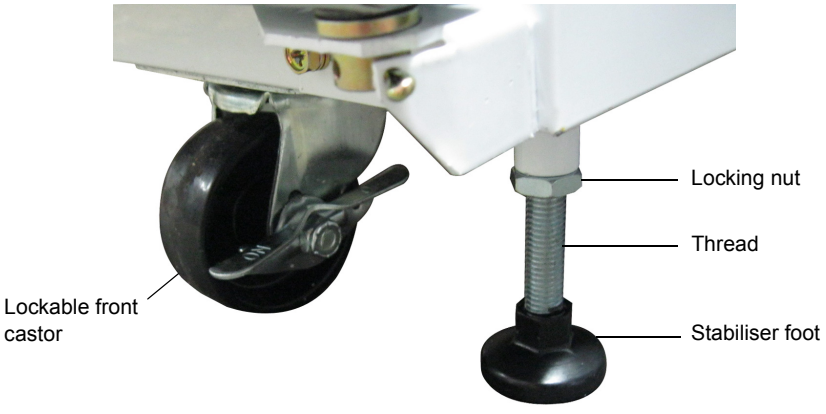
IMPORTANT

To ensure effecient and reliable operation, a minimum of 200mm clear ventilation space is required above the refrigeration unit.

Stabiliser Feet

TME475 chillers are fitted with two stabiliser feet, located next to the front castors at the cabinet base.

To provide adequate stability, both stabiliser feet **MUST** be screwed down clockwise to contact firmly with the floor (see below). Once firm floor contact has been achieved, rotate the locking nut anti-clockwise up to the top of the thread to lock the stabiliser foot in place.



WARNING

The stabiliser feet on TME475 chillers **must** have firm floor contact when the chiller is in position.

Ensure the stabiliser feet are raised when moving the chiller.

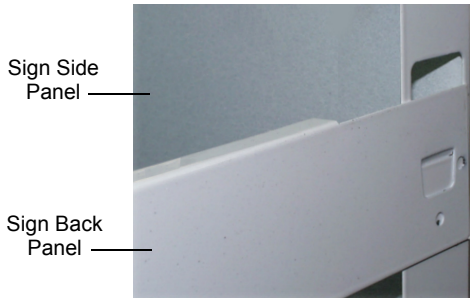
Fitting the Illuminated Sign

New Zealand models only. The illuminated sign is packed inside the chiller for transit purposes.

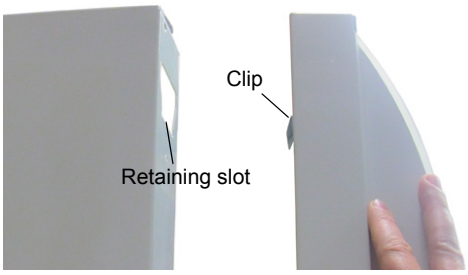
To fit the illuminated sign

1. Loosen the four retaining screws on top of the chiller, and fit the left and right hand ventilated sign sides in position. Slide the panels forward, flush with the edges of the chiller, and tighten the screws.

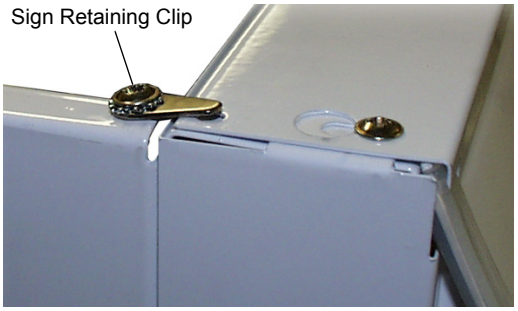
2. Clip the sign back panel into retaining slots on the rear of the sign sides and tighten fixing screws.



3. Fit sign assembly by engaging clips into both retaining slots on the front of each side panel, and pull sign assembly firmly down.



4. Turn the sign retaining clips, on top of each side panel, to hold sign unit firmly in position.



5. Connect the sign ENSTO 3 pole plug into the roof top power supply socket.

Fitting the Shelves

The chiller is supplied with five layers of shelves, which may be positioned at different heights to suit various products. Each shelf is held in place with four shelf clips which engage in the shelf support strips. The support strips are marked with a '+' for easy location of shelf clips.

To fit the wire shelves

1. Unpack the shelves and shelf clips from inside the chiller.
2. Establish the desired position for the shelves and securely engage a shelf clip in each of the shelf support strips.
3. Sit the shelves on the shelf clips.

2 Operation

Start-Up

After the chiller has been positioned in a suitable place, plug it in and check the following activity.

Note: After moving the chiller, allow the chiller to stand for at least 30 minutes before connecting to the power supply.

Item	Activity
Lighting	The lights that illuminate the chiller interior, and where applicable the lit sign, will come on when the chiller is turned on.
Thermostat	The thermostat is pre-set to give an internal air temperature of between 2°C and 4°C, and under normal circumstances should not require adjustment. If you do need to adjust the temperature, turn the thermostat shaft protruding from the control box mounted on top of the refrigeration unit. To make the temperature colder; turn the thermostat clockwise. To make the temperature warmer; turn the thermostat anti-clockwise.
Compressor, Condenser and Evaporator Fans	The compressor, and evaporator and condenser fans should all operate continuously from the time the chiller is plugged in. This may be verified by listening for compressor switch on and checking for air movement inside the chiller. The compressor and condenser fan should switch off when the chiller internal temperature reaches approximately 2°C. and on again at approximately 4°C. The internal chiller air will continue to circulate at all times.

Loading Product

The chiller should be left running for 30 minutes before loading with product. When loading the chiller shelves with product:

- Allow adequate air space around each item to ensure even cooling and efficient operation of the chiller.
- Do not exceed a maximum load of 20kg per shelf.
- Remove some product if the shelves are flexing.
- Do not let anything overhang the shelves because this might stop the doors from shutting or even break something.

3 Servicing

Cleaning

Ensure the chiller is disconnected from the power supply before cleaning.

WARNING

Twin unit chillers have two separate power supplies. Ensure both supplies are disconnected before undertaking any service or maintenance work.

Cabinet

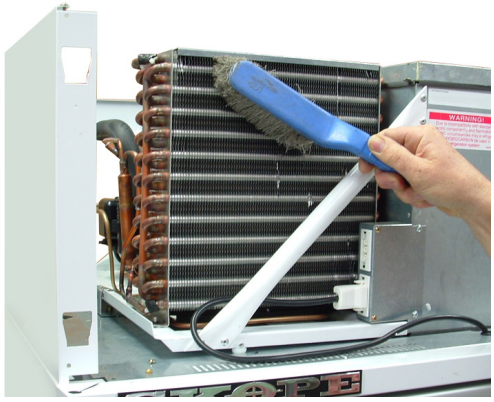
Periodically wipe the inside and outside of the cabinet with a damp cloth, taking care to keep moisture away from electrical parts. As with any maintenance, ensure the chiller is isolated from the power supply before cleaning.

Condenser Coil

To ensure trouble-free performance, the condenser coil must be cleaned each month with a soft brush or vacuum cleaner to remove any dust or blockage from the coil fins. A more thorough cleaning is recommended every six months by qualified service personnel.

To clean the condenser coil

1. Disconnect the chiller from the power supply.
2. Loosen the sign retaining clip on the top edge of each sign panel and lift the sign unit up to disengage from the sign sides.
3. Disconnect the sign plug from the electrical box socket and remove the sign unit from the chiller.
4. The condenser coil is now accessible for cleaning.



Lighting

This chiller is designed for use with LED tubes and is not compatable with fluorescent tubes.

IMPORTANT
DO NOT use fluorescent tubes.

Interior Light

Depending on the model, the chiller will have either one or two interior lights which can be replaced without moving shelves or removing product.

Interior light specifications

Model	Configuration	LED Tube Specification	SKOPE Part No.
TME475	1 × side light	22W, 1500mm, T8 LED tube	ELL10180
TME650	1 × side light	22W, 1500mm, T8 LED tube	ELL10180
TME1000	2 × side lights	22W, 1500mm, T8 LED tube	ELL10180
TME1500	2 × pillar lights	24W, 1500mm, T8 twin LED tube	ELL10603

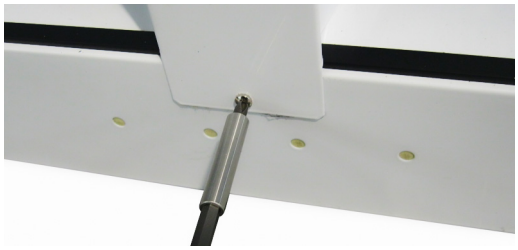
To replace a chiller interior side light

1. Disconnect the chiller from the power supply.
2. Remove the diffuser by squeezing it until it is released from the housing, and then push the diffuser out of the way.
3. Rotate the LED tube until the pins on the ends of the tube align with the slots, then slide it out.

4. Fit a new LED tube. Ensure the LED tube is fitted with the power end at the top (usually marked ‘POWER’ or similar).
5. Refit the diffuser by slipping the back section into the housing, then squeezing and snapping the front section of the diffuser into place as you work down the length of the light.

To replace a chiller interior pillar light

1. Disconnect the chiller from the power supply.
2. Prop the doors open and remove the fixing screw from the bottom of the pillar cover.

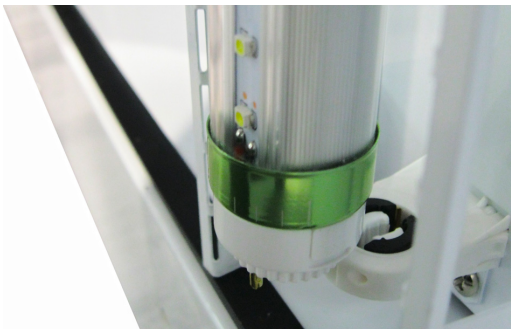


3. Unclip and detach the pillar cover down the length of the pillar to access the LED tube.

   Take care not to tug or damage wires when detaching the cover.

Continued over page

4. Rotate the LED tube until the pins on the ends of the tube align with the slots, then slide it out.



5. Fit a new LED tube. Ensure the LED tube is fitted with the power end at the top (usually marked 'POWER' or similar).

6. Refit the pillar cover by squeezing and snapping the pillar into place on the back of the cover as you work down the length of the light.

7. Fix the pillar in place with the fixing screw at the bottom of the pillar.

Sign Light

New Zealand models only. The sign unit is lit by one T8 LED tube which can be replaced by removing the front sign panel. See the sign light specifications for each model in the table below.

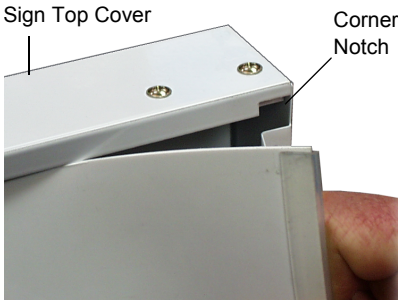
Sign light specifications

Model	Configuration	LED Tube Specification	SKOPE Part No.
TME475	1 × sign light	5W, 360mm, T8 LED tube	ELL10435
TME650	1 × sign light	11W, 600mm, T8 LED tube	ELL10741
TME1000	1 × sign light	12W, 900mm, T8 LED tube	ELL10742
TME1500	1 × sign light	24W, 1500mm, T8 LED tube	ELL10743

To replace the sign light

1. Disconnect the chiller from the power supply.

2. Start at one of the top corners of the sign unit and pull the sign panel out from under the sign top cover.



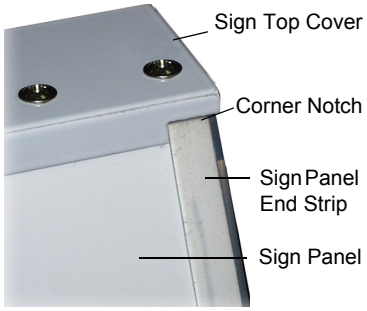
3. Work along the length of the sign unit, pulling the sign panel out as you go.

4. Carefully remove the sign panel from the sign unit.

5. The tube can now be accessed for replacement. Rotate the failed tube until the pins on the end of the tube align with the slots, then slide it out.

6. Fit the new tube and rotate until it clicks into position.

7. Refit the sign panel. When refitting the sign panel, ensure both sign panel end strips fit neatly into the top and bottom corner notches.



Troubleshooting

For problems with the chiller and refrigeration unit, use the following table.

Problem	Possible Cause	Suggestions
• Chiller not operating	• Loss of power supply	• Check mains power supply.
• Interior light not on	• Failed LED tube	• Replace LED tube (see page 9).
	• Blown chiller fuse	• Contact an authorised service agent to replace it.
• Power consumption is higher than expected	• Unit operating too hot	• Clean the condenser coil (see page 8). • Ensure the chiller has good ventilation around the refrigeration unit (see page 5). • Ensure the chiller is in a cool spot.
	• chiller doors are opened excessively	• Ensure doors are closed more often.
• Product is too warm	• Restricted airflow to chiller	• Ensure product is not blocking airflow slots. • Ensure there is space around individual product pieces.
• Warm chiller temperatures	• Blocked condenser	• Clean the condenser coil (see page 8).
• Compressor operating for long periods (more than 1 hour)	• Poor ventilation around refrigeration unit	• Ensure the chiller has good ventilation around the refrigeration unit (see page 5).

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- Applies the trade mark to the product after their state, condition, get-up or packaging has been altered in any manner
- Alters, removes (including part removal) or obliterates (including part obliteration) the trade mark on the product
- Applies any other trade mark to the product
- Adds to the product any written material that is likely to damage the reputation of the trade mark

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- Successors or assignees of the buyer
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